

2570
0226

11



OIIPE

RAW SEQUENCE LISTING

DATE: 02/19/2003

PATENT APPLICATION: US/09/838,858

TIME: 13:15:41

Input Set : A:\09838858 sequence listing.txt

Output Set: N:\CRF4\02192003\I838858.raw

4 <110> APPLICANT: Mansfield, Gary S.
5 Mitchell, Lloyd G.
6 Garcia-Blanco, Mariano A.
7 Walsh, Christopher E.
8 Chao, Hengjun
10 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR USE IN
11 SPLICEOSOME MEDIATED RNA TRANS-SPLICING
14 <130> FILE REFERENCE: A31304-BAD 072874.01
16 <140> CURRENT APPLICATION NUMBER: 09/838,858
17 <141> CURRENT FILING DATE: 2001-04-20
19 <150> PRIOR APPLICATION NUMBER: 09/756,096
20 <151> PRIOR FILING DATE: 2001-02-08
22 <150> PRIOR APPLICATION NUMBER: 09/158,863
23 <151> PRIOR FILING DATE: 1998-09-23
25 <150> PRIOR APPLICATION NUMBER: 09/133,717
26 <151> PRIOR FILING DATE: 1998-08-13
28 <150> PRIOR APPLICATION NUMBER: 09/087,233
29 <151> PRIOR FILING DATE: 1998-05-28
31 <150> PRIOR APPLICATION NUMBER: 08/766,354
32 <151> PRIOR FILING DATE: 1996-12-13
34 <150> PRIOR APPLICATION NUMBER: 60/008,317
35 <151> PRIOR FILING DATE: 1995-12-15
37 <160> NUMBER OF SEQ ID NOS: 113
39 <170> SOFTWARE: FastSEQ for Windows Version 4.0
41 <210> SEQ ID NO: 1
42 <211> LENGTH: 132
43 <212> TYPE: DNA
44 <213> ORGANISM: Homo sapien
46 <400> SEQUENCE: 1
47 caggggacgc accaaggatg gagatgttcc agggcgctga tgatgttggtt gattcttctt 60
48 aaatcttttg tgatggaaaa cttttcttcg taccacggga ctaaactgg ttatgtagat 120
49 tccattcaaa aa 132
51 <210> SEQ ID NO: 2
52 <211> LENGTH: 29
53 <212> TYPE: DNA
54 <213> ORGANISM: Corynebacterium diptheriae
56 <400> SEQUENCE: 2
57 ggcgctgcag ggcgctgatg atgttggtt 29
59 <210> SEQ ID NO: 3
60 <211> LENGTH: 36
61 <212> TYPE: DNA
62 <213> ORGANISM: Corynebacterium diptheriae
64 <400> SEQUENCE: 3

P6
ENTERED

RAW SEQUENCE LISTING

DATE: 02/19/2003

PATENT APPLICATION: US/09/838,858

TIME: 13:15:41

Input Set : A:\09838858 sequence listing.txt

Output Set: N:\CRF4\02192003\I838858.raw

```

65 ggcgaagctt ggatccgaca cgatttcctg cacagg 36
67 <210> SEQ ID NO: 4
68 <211> LENGTH: 68
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Oligonucleotide primer
75 <400> SEQUENCE: 4
76 aattctctag atgcttcacc cgggcctgac tcgagtacta actggtacct cttctttttt 60
77 ttcctgca 68
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 60
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Oligonucleotide primer
87 <400> SEQUENCE: 5
88 ggaaaaaaaaa gaagaggtag cagttagtag tcgagtcagg cccgggtgaa gcatctagag 60
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 24
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Oligonucleotide primer
99 <400> SEQUENCE: 6
100 tcgagcaacg ttataataat gtgc 24
102 <210> SEQ ID NO: 7
103 <211> LENGTH: 24
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: Oligonucleotide primer
110 <400> SEQUENCE: 7
111 tcgagaacat tattataacg ttgc 24
113 <210> SEQ ID NO: 8
114 <211> LENGTH: 35
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Oligonucleotide primer
121 <400> SEQUENCE: 8
122 aattctctag atcaggcccg ggtgaagcac tcgag 35
124 <210> SEQ ID NO: 9
125 <211> LENGTH: 25
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Oligonucleotide primer
132 <400> SEQUENCE: 9

```

RAW SEQUENCE LISTING

DATE: 02/19/2003

PATENT APPLICATION: US/09/838,858

TIME: 13:15:41

Input Set : A:\09838858 sequence listing.txt

Output Set: N:\CRF4\02192003\I838858.raw

133	tgcttcaccc gggcctgatc tagag	25
135	<210> SEQ ID NO: 10	
136	<211> LENGTH: 18	
137	<212> TYPE: DNA	
138	<213> ORGANISM: Homo sapien	
140	<400> SEQUENCE: 10	
141	tgcttcaccc gggcctga	18
143	<210> SEQ ID NO: 11	
144	<211> LENGTH: 16	
145	<212> TYPE: DNA	
146	<213> ORGANISM: Homo sapien	
148	<400> SEQUENCE: 11	
149	ctcttctttt ttttcc	16
151	<210> SEQ ID NO: 12	
152	<211> LENGTH: 18	
153	<212> TYPE: DNA	
154	<213> ORGANISM: Homo sapien	
156	<400> SEQUENCE: 12	
157	caacgttata ataatgtt	18
159	<210> SEQ ID NO: 13	
160	<211> LENGTH: 16	
161	<212> TYPE: DNA	
162	<213> ORGANISM: Homo sapien	
164	<400> SEQUENCE: 13	
165	ctgtgattaa tagcgg	16
167	<210> SEQ ID NO: 14	
168	<211> LENGTH: 16	
169	<212> TYPE: DNA	
170	<213> ORGANISM: Homo sapien	
172	<400> SEQUENCE: 14	
173	cctggacgcg gaagtt	16
175	<210> SEQ ID NO: 15	
176	<211> LENGTH: 51	
177	<212> TYPE: DNA	
178	<213> ORGANISM: Homo sapien	
180	<400> SEQUENCE: 15	
181	ctgggacaag gacactgctt cacccggtta gtagaccaca gccctgaagc c	51
183	<210> SEQ ID NO: 16	
184	<211> LENGTH: 17	
185	<212> TYPE: DNA	
186	<213> ORGANISM: Homo sapien	
188	<400> SEQUENCE: 16	
189	cttctgtttt ttttctc	17
191	<210> SEQ ID NO: 17	
192	<211> LENGTH: 16	
193	<212> TYPE: DNA	
194	<213> ORGANISM: Homo sapien	
196	<400> SEQUENCE: 17	
197	cttctgtatt attctc	16

RAW SEQUENCE LISTING

DATE: 02/19/2003

PATENT APPLICATION: US/09/838,858

TIME: 13:15:41

Input Set : A:\09838858 sequence listing.txt

Output Set: N:\CRF4\02192003\I838858.raw

```

199 <210> SEQ ID NO: 18
200 <211> LENGTH: 16
201 <212> TYPE: DNA
202 <213> ORGANISM: Homo sapien
204 <400> SEQUENCE: 18
205 gttctgtcct tgtctc 16
207 <210> SEQ ID NO: 19
208 <211> LENGTH: 29
209 <212> TYPE: DNA
210 <213> ORGANISM: Corynebacterium diptheriae
212 <400> SEQUENCE: 19
213 ggcgctgcag ggcgctgatg atgttggtg 29
215 <210> SEQ ID NO: 20
216 <211> LENGTH: 36
217 <212> TYPE: DNA
218 <213> ORGANISM: Corynebacterium diptheriae
220 <400> SEQUENCE: 20
221 ggcgaagctt ggatccgaca cgatttcctg cacagg 36
223 <210> SEQ ID NO: 21
224 <211> LENGTH: 21
225 <212> TYPE: DNA
226 <213> ORGANISM: Corynebacterium diptheriae
228 <400> SEQUENCE: 21
229 catcgtcata atttccttgt g 21
231 <210> SEQ ID NO: 22
232 <211> LENGTH: 20
233 <212> TYPE: DNA
234 <213> ORGANISM: Corynebacterium diptheriae
236 <400> SEQUENCE: 22
237 atggaatcta cataaccagg 20
239 <210> SEQ ID NO: 23
240 <211> LENGTH: 20
241 <212> TYPE: DNA
242 <213> ORGANISM: Corynebacterium diptheriae
244 <400> SEQUENCE: 23
245 gaaggctgag cactacacgc 20
247 <210> SEQ ID NO: 24
248 <211> LENGTH: 20
249 <212> TYPE: DNA
250 <213> ORGANISM: Homo sapien
252 <400> SEQUENCE: 24
253 cggcaccgtg gccgaagtgg 20
255 <210> SEQ ID NO: 25
256 <211> LENGTH: 30
257 <212> TYPE: DNA
258 <213> ORGANISM: Homo sapien
260 <400> SEQUENCE: 25
261 accggaattc atgaagccag gtacaccagg 30
263 <210> SEQ ID NO: 26

```

RAW SEQUENCE LISTING

DATE: 02/19/2003

PATENT APPLICATION: US/09/838,858

TIME: 13:15:41

Input Set : A:\09838858 sequence listing.txt

Output Set: N:\CRF4\02192003\I838858.raw

```

264 <211> LENGTH: 20
265 <212> TYPE: DNA
266 <213> ORGANISM: Homo sapien
268 <400> SEQUENCE: 26
269 gggcaagggtg aacgtggatg 20
271 <210> SEQ ID NO: 27
272 <211> LENGTH: 19
273 <212> TYPE: DNA
274 <213> ORGANISM: Homo sapien
276 <400> SEQUENCE: 27
277 atcaggagtg gacagatcc 19
279 <210> SEQ ID NO: 28
280 <211> LENGTH: 39
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Oligonucleotide primer
287 <400> SEQUENCE: 28
288 gcatgaattc ggtacatgg gggggttctc atcatcatc 39
290 <210> SEQ ID NO: 29
291 <211> LENGTH: 36
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Oligonucleotide primer
298 <400> SEQUENCE: 29
299 ctgaggatcc tcttacctgt aaacgcccat actgac 36
301 <210> SEQ ID NO: 30
302 <211> LENGTH: 38
303 <212> TYPE: DNA
304 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:
307 <223> OTHER INFORMATION: Oligonucleotide primer
309 <400> SEQUENCE: 30
310 gcatggtaac cctgcagggc ggcttcgtct gggactgg 38
312 <210> SEQ ID NO: 31
313 <211> LENGTH: 38
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: Oligonucleotide primer
320 <400> SEQUENCE: 31
321 ctgaaagctt gttaacttat tatttttgac accagacc 38
323 <210> SEQ ID NO: 32
324 <211> LENGTH: 47
325 <212> TYPE: DNA
326 <213> ORGANISM: Artificial Sequence
328 <220> FEATURE:
329 <223> OTHER INFORMATION: Oligonucleotide primer

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/838,858

DATE: 02/19/2003
TIME: 13:15:42

Input Set : A:\09838858 sequence listing.txt
Output Set: N:\CRF4\02192003\I838858.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:54; N Pos. 57,58,59,60,61,62,63,64,65,66,67,68,69,70
Seq#:55; N Pos. 57,58,59,60,61,62,63,64,65,66,67,68,69,70
Seq#:56; N Pos. 57,58,59,60,61,62,63,64,65,66,67,68,69,70
Seq#:85; N Pos. 7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:85; N Pos. 28,29,30
Seq#:100; N Pos. 7,8,9,16,17,18